

FIG. I

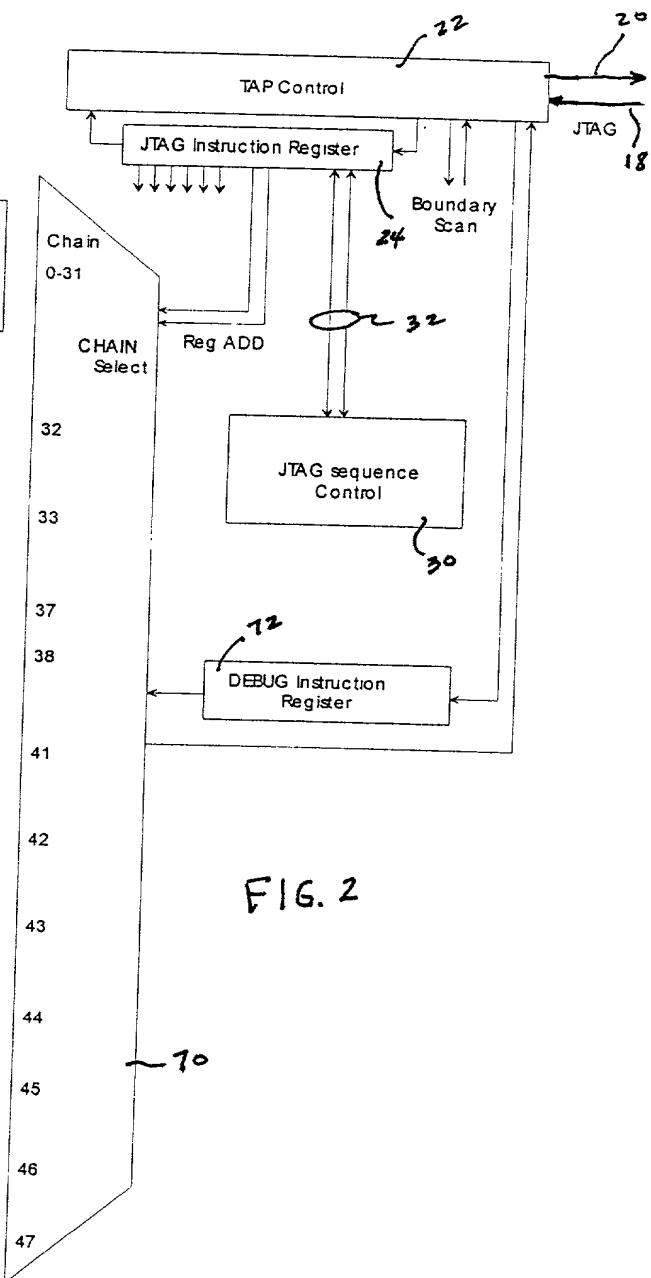
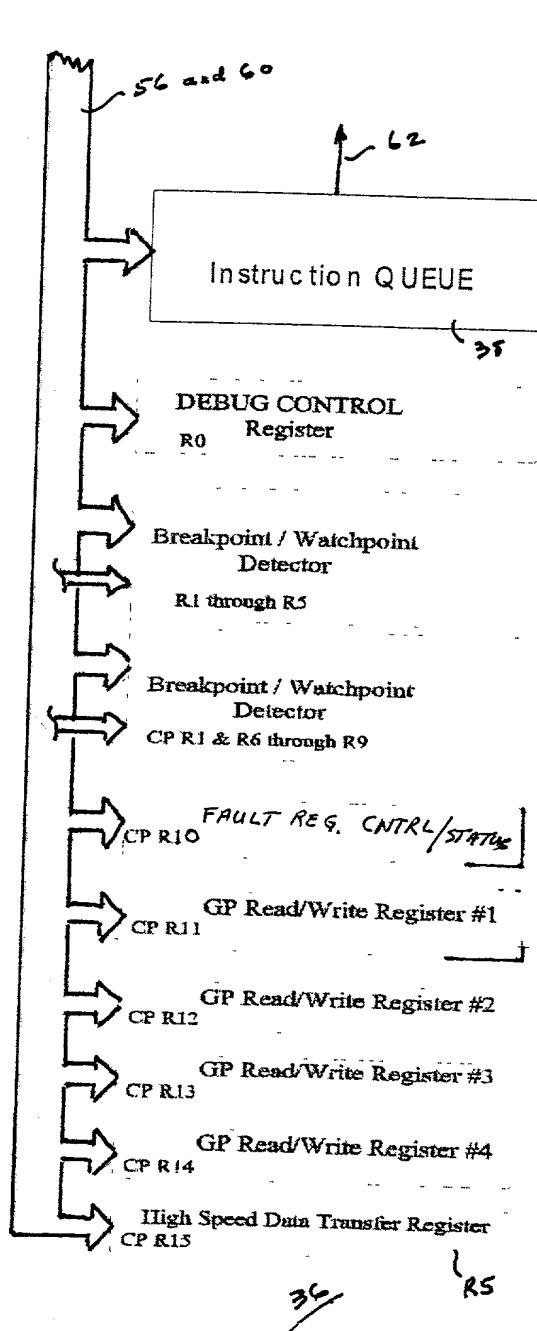


FIG. 2

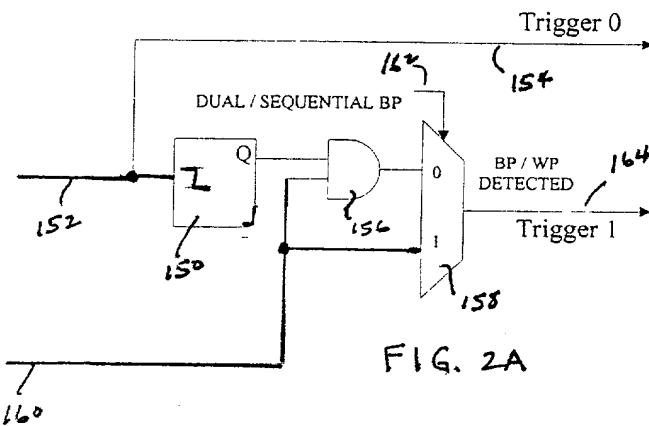


FIG. 2A

Host Interface Mode Dependency Table				
Host Interface	JTAG		Peripheral	NONE
Debug Mode	External Monitor	Internal Monitor	Internal Monitor	Normal Operation
Debug Control Register	R/W via JTAG RD via CPU CPU WR enable via JTAG	R/W via JTAG & CPU	R/W via CPU	R/W via CPU
Break/Watch Points	Both BP & WP R/W via JTAG RD via CPU CPU WR enable via JTAG	WP Only R/W via JTAG & CPU	WP Only R/W via CPU	WP Only R/W via CPU
Communication Registers	R/W via JTAG RD via CPU	R/W via JTAG & CPU	R/W via CPU	R/W via CPU
Instruction Queue	Initiated via JTAG Debug IR R/W via JTAG RD via CPU	Initiated via CP14R0b24 R/W via JTAG & CPU	Initiated via CP14R0b24 R/W via CPU	Initiated via CP14R0b24 R/W via CPU

FIG. 3

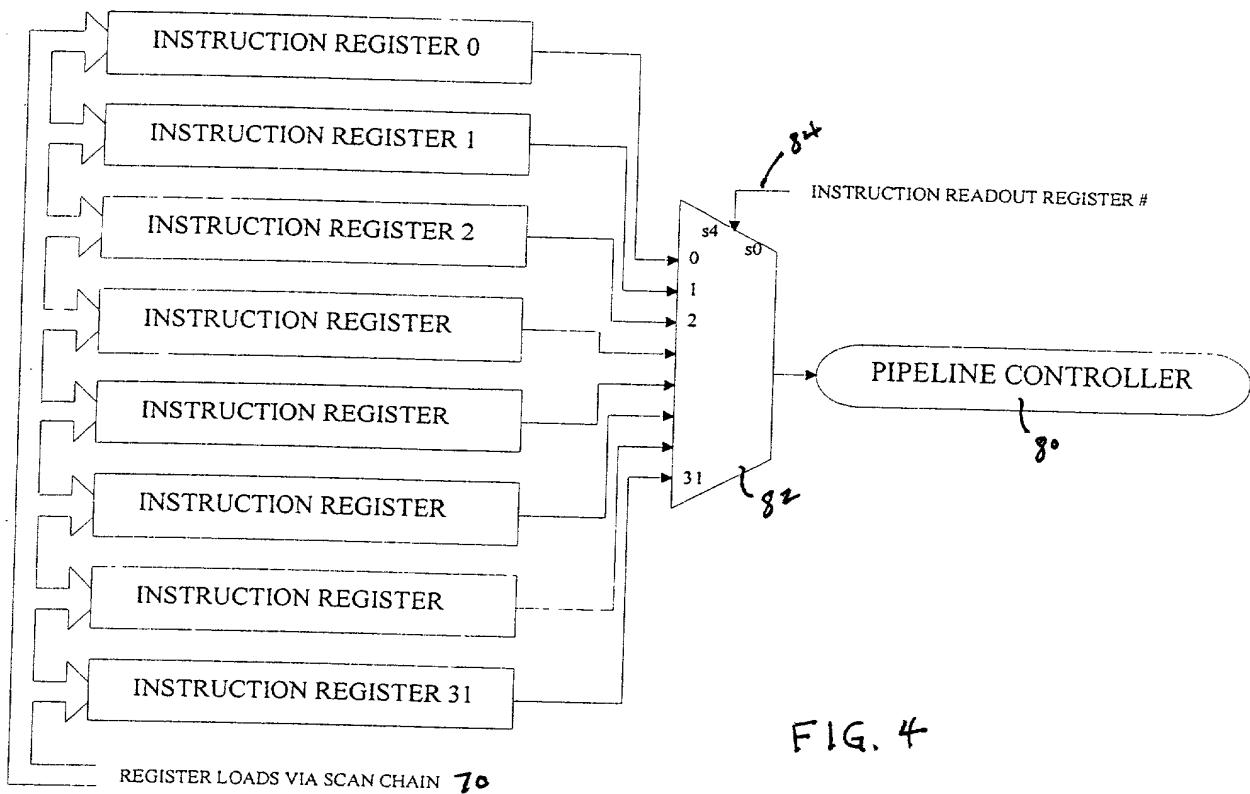


FIG. 4

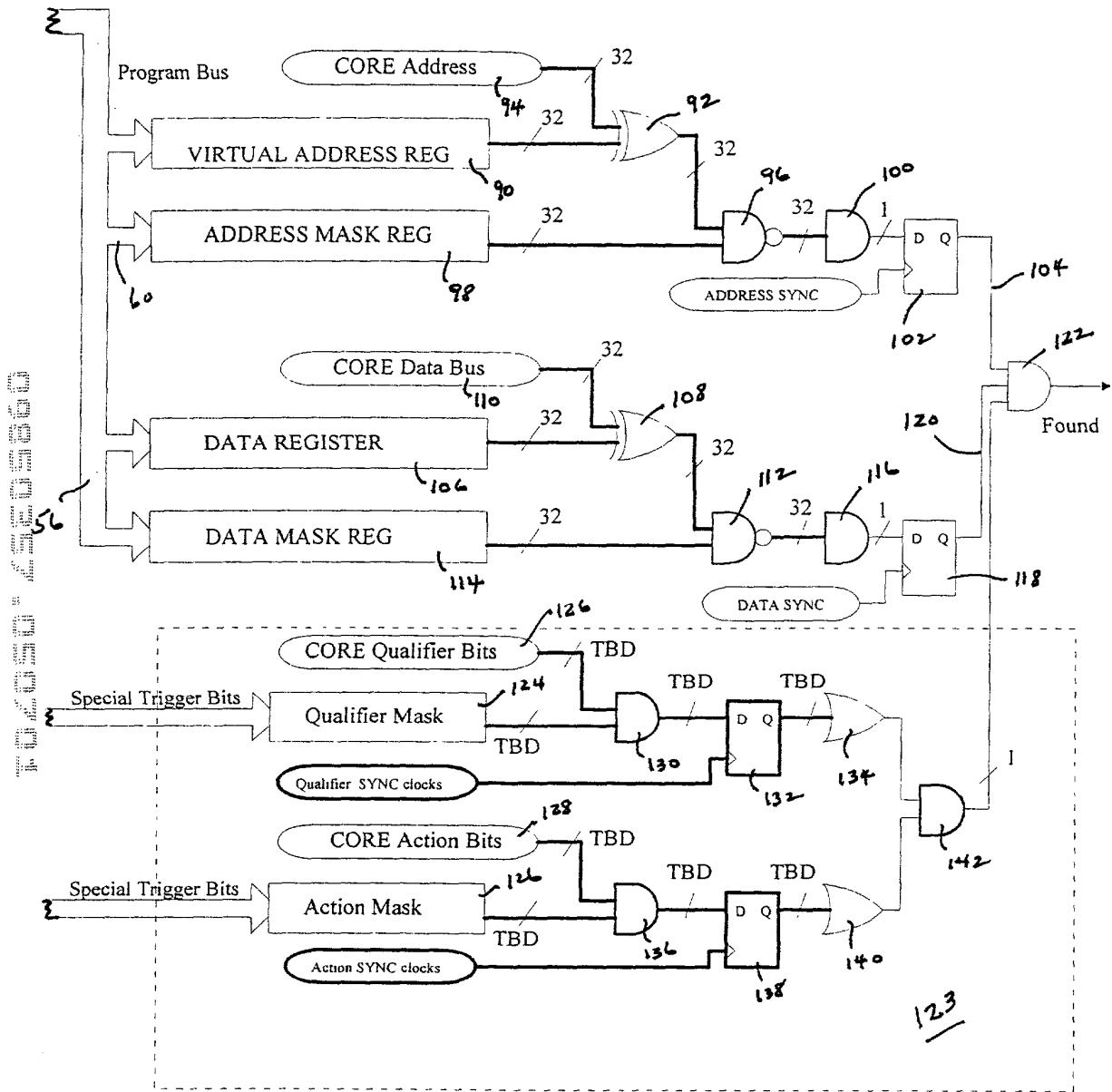


FIG. 5

MODE Access	M S B	Debug Control Register (register 0)																								L S B						
R, W, RW	3 1	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
JTAG Debug	Read	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
JTAG ROM DEBUG	Write / Read Clear after read	W R	W R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
ROM DEBUG	Write / Read Clear after read	W R	W R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
Reset	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

Definition	Count value (N)	Debug Instruction	Delay N	Instruction	Debug Entry	Reason	Sequence	Detector 1	Detector 0	Debug EDAC	Debug Halt	Debug Halt	Debug Halt	Sequence	Sequence	Manual Trig	Detector 1	Detector 0										
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FIG. 6

FIG. 7

Register		User Mode			
		JTAG DEBUG ENABLED JTAG Debug Mode (Bit 1 = 1) of the Debug Instruction Register.		JTAG DEBUG DISABLED JTAG Debug Mode (Bit 1 = 0) of the Debug Instruction Register.	
Name	Number	Read Access	Write Access	Read Access	Write Access
Debug Control	0	Read Allowed	Undefined Instr Treat as NOP	Read Allowed	Write Allowed to Upper byte
Others	1-15	Undefined Instr Return Debug Control	Undefined Instr Treat as NOP	Undefined Instr Return Debug Control	Undefined Instr Treat as NOP

FIG. 8

	M S B	Debug Instruction Register						L S B
		6	5	4	3	2	1	
Reset	0	0	0	0	0	0	1	
Definition		JTAG installed	Execute Instruction Queue	Single Step	Enable Interrupts in Debug	WDT Debug hold	JTAG Debug Mode	Run CPU

FIG. 11

TMS

TRSTn

HRSTn

CPUrdy

FIG. 9A

FIG. 9B

FIG. 9C

FIG. 9D

TMS

TRSTn

HRSTn

CPUrdy

FIG. 10A

FIG. 10B

FIG. 10C

FIG. 10D

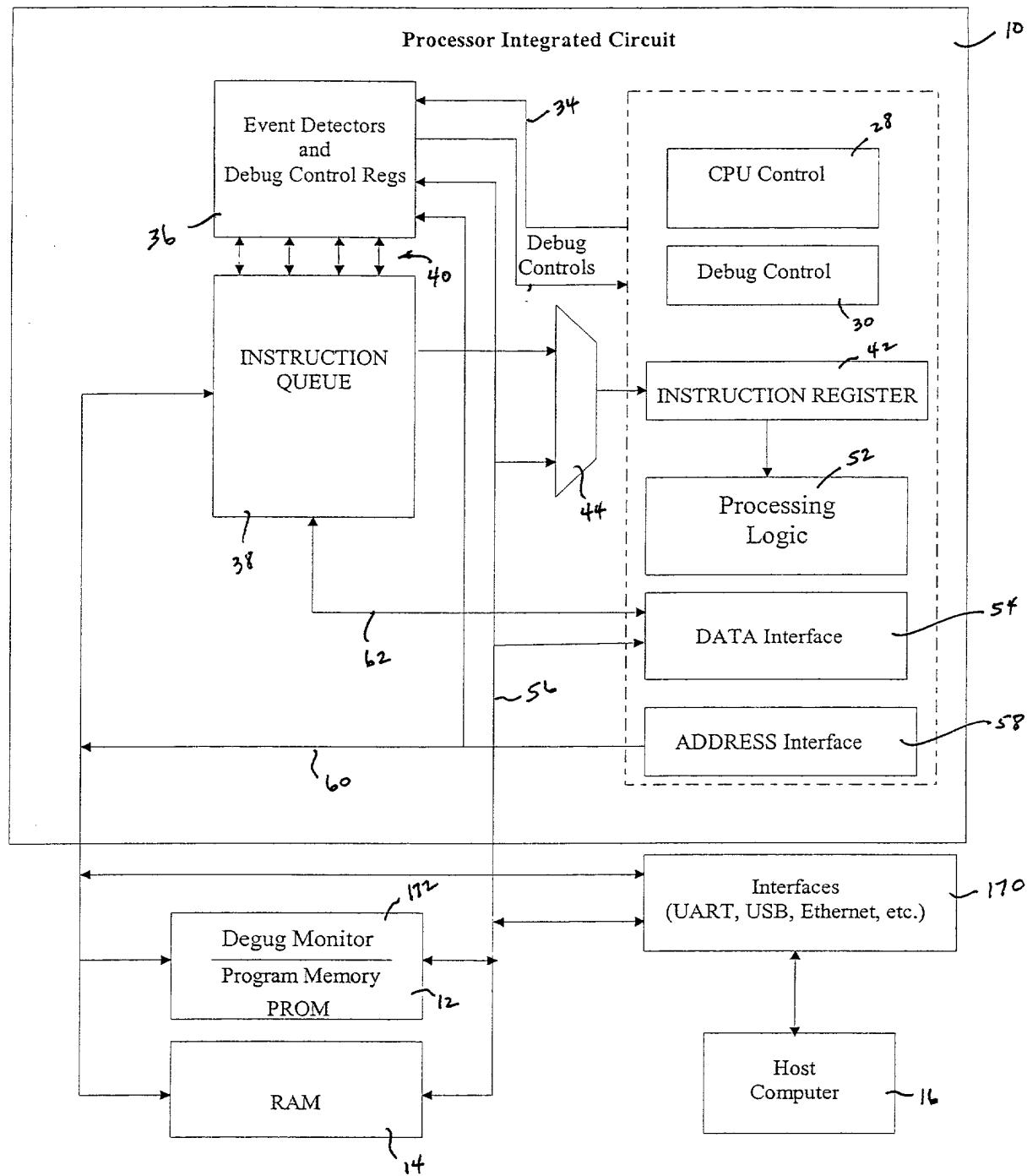


FIG. 12